California Water Plan Update 2004 & Beyond

Advisory Committee Briefing October 14, 2004

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Topics for Today's Briefing

- California Water Plan Update 2004
- Phase 2 Progress Selecting Data & Tools for Future Analysis
- Bonus Material: DWR Technical & Financial Assistance Programs

CA Water Plan Update

California Water Plan Update

- Changes between June and Admin. Drafts
- California Water Today
- Planning for an Uncertain Future
- Resource Management Strategies
- The Strategic Plan & Framework for Action
- Implementation Plan
- Bridging Update 2004 & Update 2008

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Changes Between June 7 AC Draft & Sept. Admin. Draft

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Overview of Changes

- Document Organization (see next slide)
- Editorial Process & Publication Format
- New Content
 - Executive Summary (comprehensive including June 7 Findings & 14 Recommendations)
 - Water <u>demand</u> estimates for 3 Future Scenarios
 - Reference Guide articles (see Vol. 4 TOC)
 - A Framework for Action (see later slide)

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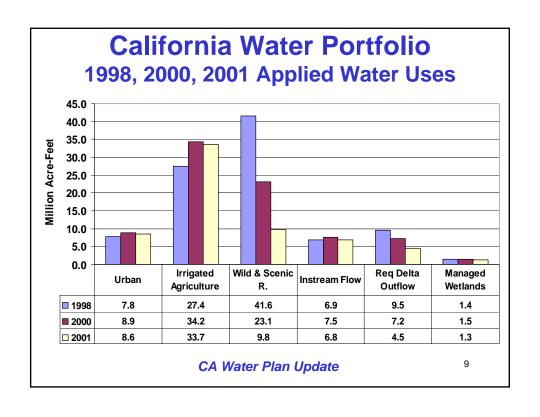
Water Plan Organization

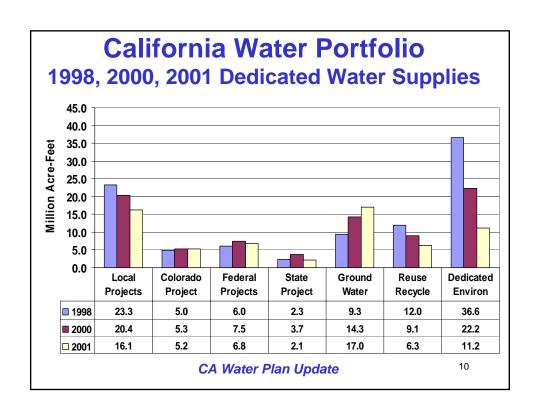
- Vol. 1 > Strategic Plan
 - Executive Summary (includes "Findings & Recommendations")
 - Chapter 1: Water Plan Overview
 - Chapter 2: California Water Today
 - Chapter 3: Planning for an Uncertain Future
 - Chapter 4: A Framework for Action
 - Chapter 5: Implementation Plan
- Vol. 2 > 25 Resource Management Strategies
 - Revised Strategy Summary Table with Supply Benefits Figure
- Vol. 3 > 12 Regional Reports
 - 10 Hydrologic Regions, Delta & Mountain Counties
- Vol. 4 > Reference Guide
 - 40+ Supplemental articles and reference material
- Vol. 5 > Technical Guide
 - Online documentation for data, methods & tools
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California Water Today & Regional Reports

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Planning for an Uncertain Future

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3 No-Action Scenarios for 2030 Plausible Yet Different Futures

Current Trends

Existing trends continue into the future

Resource
 Sustainable

California has more naturally occurring conservation (NOC) while growing its economy and restoring the environment

 Resource Intensive

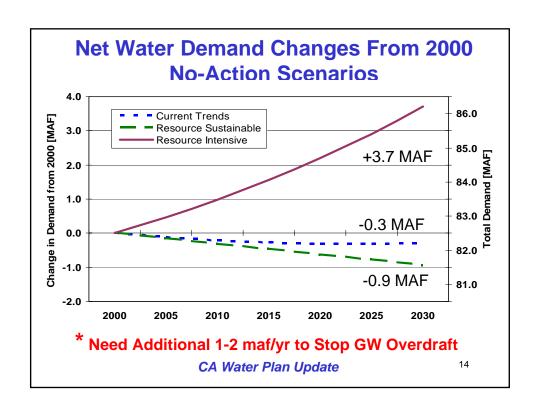
Highly productive California, respectful of environment, but more people and less NOC than other scenarios

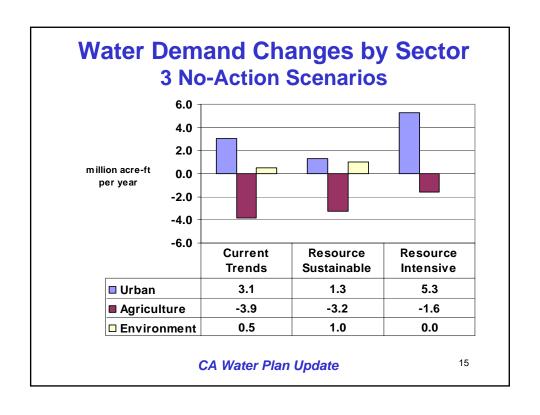
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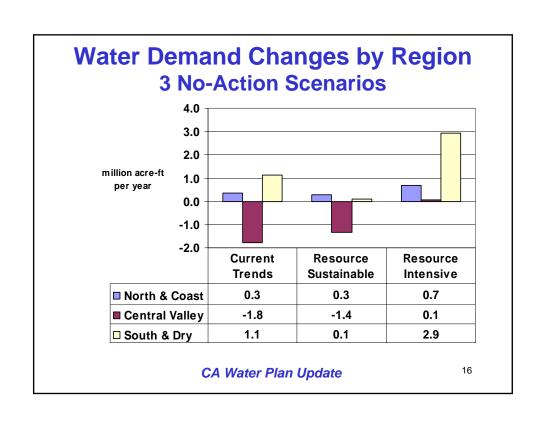
3 No-Action Scenarios for 2030 Assumptions for Key Factors

Scenario Factors Affecting Water Demand		Year 2000 Observed	2030 Current Trends	2030 Resource Sustainable	2030 Resource Intensive
Population	(millions)	34.1	48.1	48.1	52.3
Share in Inland & southern		76%	78%	78%	79%
Share of Multi-Family houses		35% of 11.6	34%	44%	29%
Naturally Occurring Conservation			- 10%	- 20%	- 5%
Irrigated Crop Area (million acre)		9.5	9.1	9.5	9.5
Irrigated land area	1	9.0	8.1 (- 10%)	8.5 (- 5%)	8.1 (- 10%)
Multi-cropped area	a	0.5	1.0 (+100%)	1.0 (+100%)	1.4 (+200%)
Effective crop wat	er use (ac-ft/ac)	3.2	3.0	2.9	3.1
Environmental Wa Instream flows & r	(,	2000 Level	0.5 (+50% obj.)	1.0 (+100% obj.)	2000 Level

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Resource Management **Strategies**

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25 Resource Management Strategies (in alphabetical order)

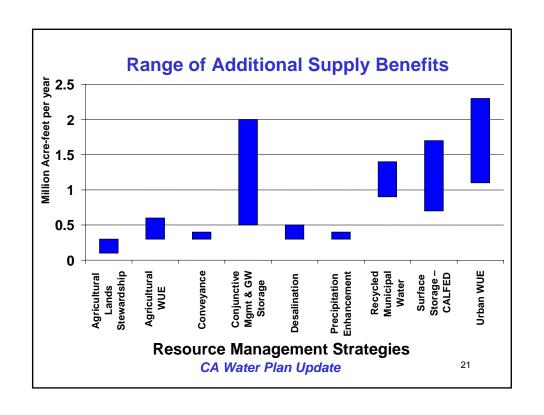
- 1. Ag. Lands Stewardship
- 2. Agricultural Use Efficiency
- 3. Conj. Mgmt / GW Storage
- 4. Conveyance
- 5. Desalination
- 6. Drinking Water Treatment & Distribution
- 7. Economic Incentives (Loans, Grants & Water Pricing) 21. Urban Water Use Efficiency
- 8. Ecosystem Restoration
- 9. Floodplain Management
- 10. GW / Aquifer Remediation
- 11. Matching WQ to Use
- 12. Pollution Prevention

- 13. Precipitation Enhancement
- 14. Recharge Area Protection
- 15. Recycled Municipal Water
- 16. Surface Storage CALFED
- 17. Surface Storage Region/Local
- 18. System Reoperation
- 19. Urban Land Use Management
- 20. Urban Runoff Management
- 22. Water-Dependent Recreation
- 23. Water Transfers
- 24. Watershed Management
- 25. Other Strategies

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Function Demand reduction Operational efficiency & redistribution	Resource management strategy Agricultural Water Use Efficiency Urban Water Use Efficiency
	Urban Water Use Efficiency
Operational efficiency & redistribution	
	Conveyance
	System Reoperation
	Water Transfers
Supply augmentation	Conjunctive Management
	& Groundwater Storage
	Desalination – Brackish Desalination – Seawater
	Precipitation – Seawater Precipitation Enhancement
	Recycled Municipal Water
	Surface Storage – CALFED
	Surface Storage – Regional/Local
Quality improvement	Drinking Water Treatment & Distribution
	Groundwater/Aquifer Remediation
	Matching Quality to Use
	Pollution Prevention
	Urban Runoff Management
Resource stewardship	Agricultural Lands Stewardship
	Economic Incentives
	(Loans, Grants, and Water Pricing)
	Ecosystem Restoration
	Floodplain Management
	Recharge Areas Protection Urban Land Use Management
	Water-Dependent Recreation
	Watershed Management
	Water shed management
Other management strategies	Plan Update

Strategies Summary Table (presented in Volume 2 Introduction) The Special Summary Regions of Computer Management Strategies (presented in Volume 2 Introduction) The Special Support Management Strategies (presented in Volume 2 Introduction) The Special Support Management Strategies (presented in Volume 2 Introduction) The Special Support Management Strategies (presented in Volume 2 Introduction) The Special Support Management Strategies (presented in Volume 2 Introduction) The Special Support Management Strategies (presented in Volume 3 Introduction) The Special Support Management Strategies (presented in Volume 4 Introduction) The Special Support Management Strategies (presented in Volume 5 Introduction) The Special Support Management Strategies (presented in Volume 6 Introduction) The Special Support Management Strategies The Special Support Management Strategies (presented in Volume 6 Introduction) The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The Special Support Activities to Integrate Strategies and Reduce Uncertainty The



The Strategic Plan & A Framework for Action

Strategic Plan Overview

- Vision
- Mission
- Goals
- Recommendations
- Framework for Action
- Implementation Plan

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Water Plan Vision

California's water resource management preserves and enhances public health and the standard of living for Californians; strengthens economic growth, business vitality, and the agricultural industry; and restores and protects California's unique environmental diversity.

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Water Plan Mission

To develop a strategic plan that guides
State, local, and regional entities in
planning, developing, and managing
adequate, reliable, secure, affordable,
and sustainable water of suitable
quality for all beneficial uses.

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Water Plan Goals Intended Outcomes

- State government supports good water planning and management through leadership, oversight, and public funding.
- Regional efforts play a central role in California water planning and management.
- Water planning and urban development protect, preserve, and enhance environmental and agricultural resources.
- Natural resource and land use planners make informed water management decisions.
- Water decisions are equitable across all communities.

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Framework for Action

- Purpose
 - -Group 14 Rec'ds by Priorities
 - Provide Focus & Specificity
- Content
 - -5 Fundamental Lessons
 - –4 Priorities
 - -~25 High-priority Near-term Actions

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Framework for Action Fundamental Lessons

- Sustainable development & water use foster strong economy, protect public health & environment, and improve quality of life
- Regional planning is the best way to plan for and carry out solutions to water management problems
- Water is precious resource -- must protect water quality and use supplies wisely and efficiently
- Water conservation & recycling are becoming and need to be a fundamental management strategy
- Some regions need more ground and surface water storage for greater operational flexibility

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Framework for Action Priorities

- Promote integrated resource planning for sustainable water resource use, environmental stewardship, and efficient urban development
- Strengthen & make better use of water infrastructure as the backbone of water management in California
- Adapt State government and funding methods to better meet the needs of its citizens and support local agencies and governments in sustainable water management
- Capitalize on promising water & information technologies to support better business decisions

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Implementation Plan All Near-Term & Comprehensive Actions

- Action Plan for each Rec'd
 - ~25 Near-term actions (Framework for Action)
 - ~40 Long-term comprehensive actions
- Intended Outcomes
- Resource Assumptions
- Implementation Challenges
- Performance Measures

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Bridging Update 2004 & Update 2008

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Phased Work Plan

- Phase 1 Feb. 2003 through Dec. 2004
 - Public Review Draft of Water Plan Update
 - Work Plan for preparing data & tools
- Phase 2 Jan. 2004 through April 2005
 - Public Comment & Final Water Plan (April 2005)
 - Select methods & tools to quantify 2030 Scenarios
- Phase 3 begins May 2005
 - Marks beginning of <u>Update 2008</u> process
 - Assemble new Advisory Committee (Regional)
 - Conduct <u>Quantitative Studies</u> for 2030 Scenarios
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Phase 1 Production Schedule

Administrative Draft Sept. 2004

Public Review Draft Dec. 2004

Public Hearings Jan/Feb 2005

• Final Water Plan April 2005

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Phase 2 Progress Selecting Data & Analytical Tools

- Conceptual Approach for Future Analysis (To-Be)
- Inventory & Documentation for Existing Data & Analytical Tools (As-Is)
- Reconcile Conceptual Approach w/ Existing Tools
- Refine No-Action Scenarios for 2030
- Develop Response Packages (mixes of strategies)
- Proposal to Analyze Scenarios & Response Packages for Update 2008
- Proposal to Improve Data & Tools Beyond 2008

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Public Hearing Locations

- Eureka
- Redding
- Sacramento
- Oakland
- Tracy or Stockton
- Bakersfield
- San Luis Obispo
- Ontario or San Bernardino
- Palm Desert

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DWR Technical & Financial Assistance

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District Office Programs

- Emergency Response following catastrophic events (flood, fire, ...)
- Drought Education, preparedness and assistance
- Basic Data: Water Quality, Streamflow and Climatology
- Technical Assistance for Stream Monitoring
- Aerial Photography & Crop Mapping
- Land Use & Water Use Studies
- Water Supply Studies for Small Systems
- · Well Log information for govm't entities

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Flood Management

- Real-time information on California Data Exchange Center (CDEC) at
 - www.cdec.water.ca.gov
- State Federal Flood Operations Center
 (800) 952-5530

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Financial Assistance

- Local Groundwater Asst. (AB 303)
 - \$6 million for FY 2004-05
 - Proposals due December 2, 2004
 - Workshops Oct 19 (Sac) & 22 (Redding)
- Prop 50 Water Use Efficiency Grants
 - Total \$120 million for Ag & Urban WUE
 - \$34 million for FY 2004-05
 - Proposals due January 2005
 - Draft PSP Online / Final PSP in November

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Financial Assistance (cont)

- Prop 50 Desalination Grants
 - Total \$50 million for Feasibility Studies, R&D, Pilot Projects & Construction Projects
 - Applications due January 2005
- Prop 50 Integrated Regional Water Management Grants
 - Total \$380 million / \$160 million first cycle
 - \$10 million for developing IRWM Plans
 - \$50 million max per implementation grant
 - Planning Applications due Feb. 2005
 - Step 1 Applications due March 2005
 - Step 2 Applications due Dec. 2005

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Contacts

- Planning & Local Assistance
 - Mark Cowin (916) 651-9202
- DWR Districts (Regional Offices)
 - Paula Landis (559) 230-3310 San Joaquin (Fresno) – Dwight Russell (530) 529-7342 Northern (Red Bluff) Central (Sacramento)
 - Karl Winkler (916) 227-7566
- Groundwater & Bulletin 118
- John Woodling (916) 651-9291 Flood Management
 - Flood Center (800) 952-5530

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Contacts (cont.)

- AB 303 GW Grants
 - John Woodling (916) 651-9291
- Prop 50 WUE Grants
 - Debra Gonzalez (916) 651-7026
- Prop 50 Desalination Grants
 - Fawzi Karajeh (916) 651-9669
- Prop 50 IRWMP Grants
 - John Woodling (916) 651-9291
- California Water Plan Update
 - Kamyar Guivetchi (916) 653-3937

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